

INCH-POUND

MIL-F-15733/65B

8 May 2003

SUPERSEDING

MIL-F-15733/65A(USAF)

12 August 1981

# MILITARY SPECIFICATION SHEET

## FILTERS, RADIO FREQUENCY INTERFERENCE, STYLE FL87

Inactive for new design after 7 May 1986. See table II for supersession data.

This specification sheet is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the filters described herein shall consist of this specification sheet and the latest issue of MIL-PRF-15733.

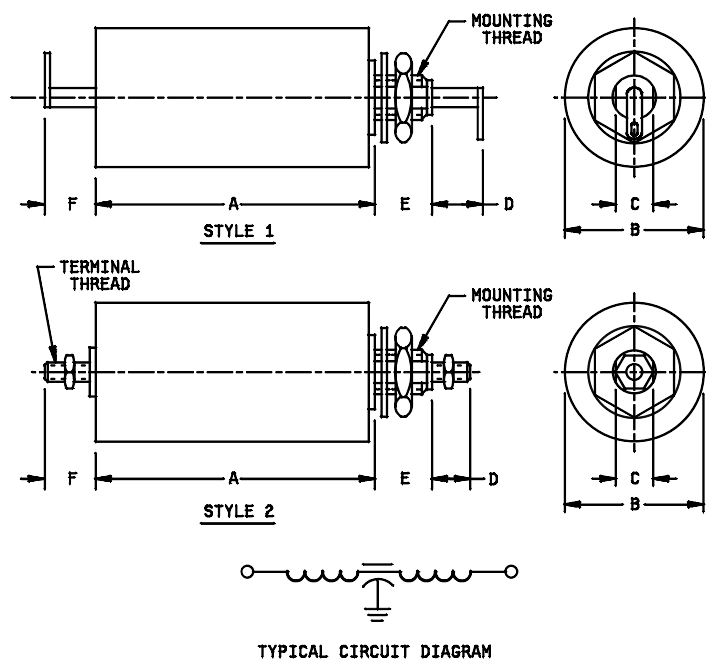


FIGURE 1. Case and circuit configuration.

Physical characteristics.

Dash number	Style	Dimensions									
		A		B	C	D	E		F	Terminal thread	Mounting thread
		Min	Max	Max	Max	Max	Min	Max	Max		
0001	1	2.94 (74.7)	3.06 (77.7)	1.02 (25.9)	.380 (9.65)	.25 (6.4)	.420 (10.67)	.440 (11.18)	.25 (6.4)	N/A	.438-20UNF-2A
0002	1	3.81 (96.8)	3.93 (99.8)	1.15 (29.2)	.380 (9.65)	.25 (6.4)	.420 (10.67)	.440 (11.18)	.25 (6.4)	N/A	.438-20UNF-2A
0003	2	3.69 (93.7)	3.81 (96.8)	1.52 (38.6)	.666 (16.92)	.69 (17.5)	.480 (12.19)	.520 (13.21)	.69 (17.5)	.164-32 UNC-2A	.750-20UNEF-2A
0004	2	4.30 (109.7)	4.44 (112.8)	1.52 (38.6)	.666 (16.92)	.69 (17.5)	.480 (12.19)	.520 (13.21)	.69 (17.5)	.164-32 UNC-2A	.750-20UNEF-2A
0005	2	4.94 (125.5)	5.06 (128.5)	1.77 (45.0)	.666 (16.92)	.69 (17.5)	.480 (12.19)	.520 (13.21)	.69 (17.5)	.164-32 UNC-2A	.750-20UNEF-2A
0006	2	4.94 (125.5)	5.06 (128.5)	1.77 (45.0)	.666 (16.92)	.69 (17.5)	.480 (12.19)	.520 (13.21)	.69 (17.5)	.164-32 UNC-2A	.750-20UNEF-2A
0007	2	5.44 (138.2)	5.56 (141.2)	2.27 (57.7)	1.075 (27.30)	.81 (20.6)	.540 (13.72)	.580 (14.73)	.81 (20.6)	.190-32 UNF-2A	1.125-18UNEF-2A
0008	2	6.44 (163.6)	6.56 (166.6)	2.27 (57.7)	1.075 (27.30)	.88 (22.4)	.540 (13.72)	.580 (14.73)	.88 (22.4)	.250-20 UNC-2A	1.125-18UNEF-2A

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only.
4. Circuit diagram is for information only.
5. Mounting hardware shall be supplied with filter.

FIGURE 1. Case and circuit configuration (continued).

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TABLE I. Electrical characteristics.

Dash number	Rated current (amperes)	Minimum insertion loss (dB) in accordance with MIL-STD-220 at 25°C 1/						
		150 kHz	300 kHz	600 kHz	1 MHz	10 MHz	100 MHz	1 GHz
0001	.5	40	50	60	60	60	60	60
0002	1	40	50	60	60	60	60	60
0003	3	40	50	60	60	60	60	60
0004	5	40	50	60	60	60	60	60
0005	10	40	50	60	60	60	60	60
0006	20	37	46	54	58	60	60	60
0007	30	37	46	54	58	60	60	60
0008	50	37	46	54	58	60	60	60

1/ No-load insertion loss measurements shall be performed at 100 MHz and 1 GHz. Full-load insertion loss measurements shall be performed from 150 KHz to 10 MHz.

REQUIREMENTS:

Configurations and dimensions: See figure 1.

Case: Metal.

Case and mounting hardware finish: In accordance with MIL-PRF-15733. Pure tin finish is prohibited.

Rated voltage: 400 V dc, 115 V ac.

Rated current: See table I.

Insertion loss: See table I.

Operating temperature range: -55°C to +125°C.

Insulation resistance: In accordance with MIL-PRF-15733. Insulation resistance shall be 1,000 megohms minimum when measured at +25°C between both terminals connected together and the case.

Terminal strength: In accordance with MIL-PRF-15733 and method 211 of MIL-STD-202. The following details apply:

Style 1: Test condition A - 9 pounds.

Test condition B - 5 bends.

Style 2: Test condition E, torque shall be as specified in MIL-PRF-15733.

Salt atmosphere (corrosion): In accordance with MIL-PRF-15733 and method 101, MIL-STD-202; test condition A.

Shock (specified pulse): In accordance with MIL-PRF-15733 and method 213, MIL-STD-202; test condition I.

Vibration, high frequency: In accordance with MIL-PRF-15733 and method 204, MIL-STD-202; test condition B.

Life: In accordance with MIL-PRF-15733 and method 108, MIL-STD-202; test condition B (250 hours).

Part or Identifying number (PIN): M15733/65- (dash number from table I).

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The Qualified Products List (QPL) associated with this inactive for new design specification will be maintained until acquisition of the product is no longer required whereupon the specification and QPL will be canceled.

Supersession data: See table II.

TABLE II. Supersession data.

Superseded PIN	Superseding PIN
M15733/65-	M15733/73-
0001	0055
0002	0057
0003	0059
0004	0061
0005	0063
0006	0065
0007	0067
0008	0069

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodian:  
Air Force - 11  
Navy - EC  
DLA - CC

Preparing activity  
DLA - CC  
(Project 5915-0433)